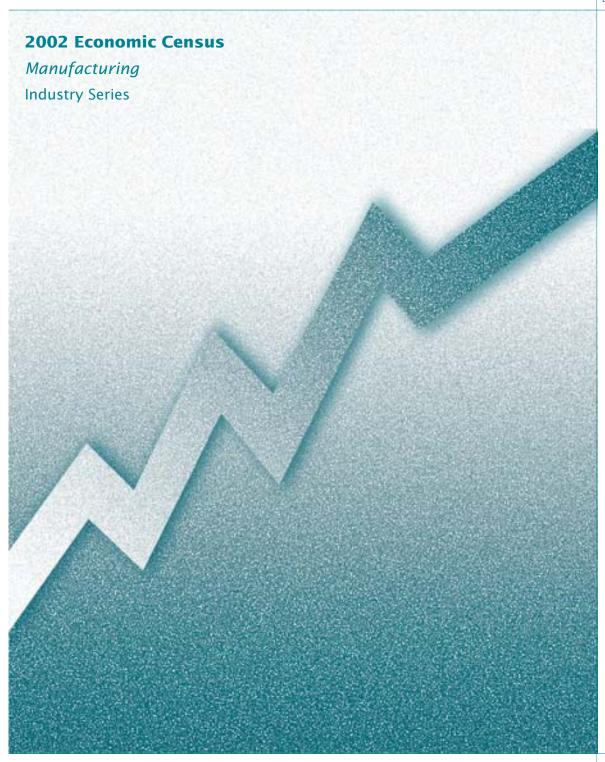
# Fats and Oils Refining and Blending: 2002

Issued December 2004

EC02-311-311225 (RV)





Helping You Make Informed Decisions

U.S. Department of Commerce Economics and Statistics Administration U.S. CENSUS BUREAU



# **CONTENTS**

	duction to the Economic Census	v ix
Table	es	
1. 2. 3. 4. 5. 6a. 6b. 7.	Historical Statistics for the Industry: 2002 and Earlier Years Industry Statistics for Selected States: 2002 Detailed Statistics by Industry: 2002 Industry Statistics by Employment Size: 2002 Industry Statistics by Primary Product Class Specialization: 2002 Products Statistics: 2002 and 1997 Product Class Shipments for Selected States: 2002 and 1997 Materials Consumed by Kind: 2002 and 1997	1 2 3 4 5 6 8 9
Appe	endixes	
A. B. C. D. E. F.	Explanation of Terms NAICS Codes, Titles, and Descriptions Methodology Geographic Notes Metropolitan and Micropolitan Statistical Areas Comparability of Product Classes and Product Codes: 2002 to 1997	A-1 B-1 C-1   F-1

-- Not applicable for this report.

# Table 1. Historical Statistics for the Industry: 2002 and Earlier Years

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

		All	All employees		Pro	duction work	kers		Total	Total	Total capital
Industry and year <sup>1</sup>	Com- panies <sup>2</sup>	estab- lish- ments <sup>3</sup>	Number <sup>4</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	cost of materials (\$1,000)	value of shipments (\$1,000)	tures
311225, Fats and oils refining and											
blending2002	76	121	8 189	320 646	6 022	12 767	208 012	1 719 368	5 466 982	7 172 595	r117 077
2001	N	N	7 698	273 900	5 678	11 439	184 224	1 713 262	4 497 017	6 218 365	117 852
2000	N	N	7 439		5 485	11 739	175 036	1 728 698	4 183 496	5 927 625	102 718
1999	N	N	8 882	308 294	6 446	13 841	201 011	1 494 702	5 308 952	6 798 523	165 635
1998	N	N	7 954		5 899	12 785	188 623	1 589 978	6 065 981	7 679 572	368 784
1997	91	133	8 485	296 340	6 261	13 422	192 558	1 681 947	5 960 566	7 622 873	168 506

¹Statistics presented for years ending in 2 and 7 are census data. Interim census years are derived in a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures (ASM).

²For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

³Includes establishments with payroll at any time during the year.

⁴Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

# Table 2. Industry Statistics for Selected States: 2002

[States that are a disclosure or with less than 100 employees are not shown. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

		All establishments <sup>2</sup>		All employees		Production workers						
Industry and geographic area	E¹	Total	With 20 em- ploy- ees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>3</sup>	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
311225, Fats and oils refining and blending												
United States. Illinois Minnesota New Jersey Tennessee.	2	121 12 9 3 4	77 10 8 3 4	8 189 1 151 670 239 463	320 646 45 583 28 322 12 586 21 023	6 022 850 486 165 335	12 767 1 898 1 065 384 723	208 012 30 282 18 828 6 142 13 081	1 719 368 227 593 264 083 51 933 79 681	5 466 982 704 839 720 022 179 631 360 157	7 172 595 935 081 978 021 231 153 450 427	r117 077 r14 073 r19 249 r7 896 3 763

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

¹Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

# Detailed Statistics by Industry: 2002

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Item	Value
311225, Fats and oils refining and blending	
Companies <sup>1</sup> number.	76
All establishments <sup>2</sup> number.  Establishments with 1 to 19 employees number.  Establishments with 20 to 99 employees number.  Establishments with 100 employees or more number.	121 44 45 32
All employees³         number           Total compensation         \$1,000           Annual payroll         \$1,000           Total fringe benefits         \$1,000	8 189 417 007 320 646 96 361
Production workers, average for year	6 022 5 992 5 944 6 044 6 084
Production worker hours	12 767 208 012
Total cost of materials         \$1,000.           Materials, parts, containers, packaging, etc., used         \$1,000.           Resales         \$1,000.           Purchased fuels         \$1,000.           Purchased electricity         \$1,000.           Contract work         \$1,000.	5 466 982 5 165 500 174 445 67 282 46 257 13 498
Quantity of electricity purchased for heat and power	909 992 85 659
Total value of shipments         \$1,000           Primary products value of shipments         \$1,000           Secondary products value of shipments         \$1,000           Total miscellaneous receipts         \$1,000           Value of resales         \$1,000           Contract receipts         \$1,000           Other miscellaneous receipts         \$1,000	7 172 595 6 112 489 869 928 190 178 182 976 4 174 3 028
Primary products specialization ratio percent Value of primary products shipments made in all industries \$1,000. Value of primary products shipments made in this industry \$1,000. Value of primary products shipments made in other industry \$1,000.	88 8 360 958 6 112 489 2 248 469
Coverage ratiopercent	73
Value added\$1,000	1 719 368
Total inventories, beginning of year       \$1,000.         Finished goods inventories       \$1,000.         Work-in-process inventories       \$1,000.         Materials and supplies inventories       \$1,000.	352 830 168 655 43 367 140 808
Total inventories, end of year         \$1,000           Finished goods inventories         \$1,000           Work-in-process inventories         \$1,000           Materials and supplies inventories         \$1,000	390 594 184 670 41 107 164 817
Gross value of depreciable assets (acquisition costs) at beginning of year         \$1,000           Total capital expenditures (new and used)         \$1,000           Buildings and other structures (new and used)         \$1,000           Machinery and equipment (new and used)         \$1,000           Automobiles, trucks, etc., for highway use         \$1,000           Computers and peripheral data processing equipment         \$1,000           All other expenditures for machinery and equipment         \$1,000           Total retirements         \$1,000           Gross value of depreciable assets at end of year         \$1,000	'2 401 211 '117 077 '14 034 '103 043 '2 425 '4 584 '96 034 '108 208 '2 410 080
Depreciation charges during year	<sup>r</sup> 130 913
Total rental payments \$1,000. Buildings and other structures \$1,000. Machinery and equipment \$1,000.	49 082 18 476 30 606
Total other expenses <sup>4</sup> \$1,000 Response coverage ratio <sup>5</sup> percent. Repair and maintenance services of buildings and/or machinery <sup>4</sup> \$1,000 Communications services <sup>4</sup> \$1,000 Legal services <sup>4</sup> \$1,000 Accounting, auditing, and bookkeeping services <sup>4</sup> \$1,000 Advertising and promotional services <sup>4</sup> \$1,000 Expensed computer hardware and supplies and purchased computer services <sup>4</sup> \$1,000 Refuse removal (including hazardous waste) services <sup>4</sup> \$1,000 Management consulting and administrative services <sup>4</sup> \$1,000 Taxes and license fees <sup>4</sup> \$1,000 All other expenses <sup>4</sup> \$1,000	114 830 71 39 611 2 004 555 734 623 1 329 11 975 345 6 111

<sup>1</sup>For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.
2Includes establishments with payroll at any time during the year.
3Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.
4Based on Annual Survey of Manufactures (ASM) sample data.
5A response coverage ratio is derived for this item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight) for those Annual Survey of Manufactures (ASM) establishments that reported to the weighted total employment for all ASM establishments classified in this industry.

Note 1: The amounts shown for other expenses reflect only those services that establishments purchase from other companies.

Note 2: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

# Table 4. Industry Statistics by Employment Size: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Employment size class		All employees			Pr	roduction worke	rs		Total	Total	Total
		All estab- lish- ments <sup>2</sup>	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>3</sup>	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	capital expendi- tures (\$1,000)
311225, Fats and oils refining and blending											
All establishments  Establishments with —  1 to 4 employees 5 to 9 employees 10 to 19 employees 20 to 49 employees 10 to 249 employees 250 to 499 employees 500 to 999 employees 500 to 999 employees	1 9 4 7 2 1 1 1	121 22 12 10 23 22 27 5	8 189 44 75 138 812 1 445 4 175 1 500	320 646 1 551 2 857 4 846 35 779 56 479 169 901 49 233	6 022 33 57 93 531 1 005 3 212 1 091	12 767 61 115 195 1 122 2 146 6 953 2 175	208 012 1 043 1 883 3 117 19 534 34 471 116 653 31 311	1 719 368 5 620 12 602 98 057 248 983 234 678 685 784 433 644	5 466 982 20 351 29 750 39 289 1 052 223 1 037 494 2 489 490 798 455	7 172 595 25 954 42 464 137 283 1 288 894 1 261 208 3 176 748 1 240 044	'117 077 '515 '534 '4 280 '16 366 '15 146 '63 029 '17 207
1,000 to 2,499 employees	_	_	_	_	_	_	_	_ _	_ _	_ _	_ _
Administrative records <sup>4</sup>	9	25	195	7 567	153	312	5 425	29 553	114 816	143 880	r2 623

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

¹Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

⁴Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. Data are also included in respective size classes shown.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

# Table 5. Industry Statistics by Primary Product Class Specialization: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry or		All	All em	ployees	Production workers				Total	Total	Total capital
product class code	Industry or primary product class	estab- lish- ments <sup>1</sup>	Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	cost of materials (\$1,000)	value of shipments (\$1,000)	expendi- tures (\$1,000)
311225	Fats and oils refining and blending	121	8 189	320 646	6 022	12 767	208 012	1 719 368	5 466 982	7 172 595	'117 077
3112252 3112254	Shortening and cooking oils Margarine, butter blends, and butter	65	5 307	214 259	3 776	8 293	133 700	1 107 739	4 485 870	5 566 078	74 476
	substitutes	16	1 914	75 316	1 532	2 980	53 035	485 508	680 505	1 176 994	r28 015

<sup>&</sup>lt;sup>1</sup>Includes establishments with payroll at any time during the year.

<sup>2</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

#### Products Statistics: 2002 and 1997 Table 6a.

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

		Number of companies with		Product s	roduct shipments	
Product code	Product	shipments of \$100,000 or more	Quantity of production for all purposes	Quantity	Value (\$1,000)	
311225	Fats and oils refining and blending	N N	×	××	8 360 958 7 788 001	
3112252	Shortening and cooking oils	N N	X	X	6 680 665 N	
31122521	Baking or frying fats (shortening), 100 percent vegetable oil, edible	N	X	x	1 764 069	
3112252111	Baking or frying fats (shortening), 100 percent vegetable oil, edible <sup>1</sup> mil lb. 2002.	N 23	5 553.2	<sup>q</sup> 5 225.9	N 1 764 069	
31122522	Baking or frying fats (shortening), 100 percent animal fat or blends of vegetable oil and animal fat, edible	N N	N X	N X	N 317 482	
3112252221	Baking or frying fats (shortening), 100 percent animal fat or blends of vegetable oil and animal fat, edible¹	N 16	1 376.9	X P794.0	N 317 482	
31122523	Hydrogenated oils (for confectionery fats, mellorine fats, whipped topping, etc.), except baking or frying fats, edible	N N	X	N X	150 986	
3112252331	Hydrogenated oils (for confectionery fats, mellorine fats, whipped topping, etc.), except baking or frying fats,	N	x	x	N	
	edible	3 N	X X	568.1 N	150 986 N	
31122524	Partially hydrogenated soybean cooking or salad oil, fully refined and deodorized at the same establishment, edible	N N	X	×	1 753 146 N	
3112252441	Partially hydrogenated soybean cooking or salad oil, fully refined and deodorized at the same establishment, edible¹	10	7 365.0	P7 553.3	1 753 146	
31122525	All other fully refined shortening and cooking oils, edible	N N	7 303.0 N X	N X	1 733 140 N 878 343	
3112252551	Other soybean cooking or salad oil, fully refined and	N	Х	X	N	
3112252561	deodorized at the same establishment, edible <sup>1</sup>	4 N	X	P447.5 N	164 438 N	
3112252571	deodorized at the same establishment, edible <sup>1</sup>	5 N	348.3 N	382.1 N	89 306 N	
3112252581	deodorized at the same establishment, ediblé <sup>1</sup>	3 N	X	P389.9 N	87 723 N	
	the same estaĎlishment, edible <sup>1</sup>	10 N	2 024.2 N	S N	501 153 N	
3112252591	Vegetable oil winter stearin, edible	_ N	X X	_ N	– N	
31122525A1 31122525A5	Canola oil used for margarine, edible	3 N	X X	D N	D N	
	purchased material <sup>1</sup> mil lb2002 1997	1 N	X X	_ N	D N	
31122525B1	Other oils used for margarine, edible	3 N	X	D N	D N	
31122525C1	All other fully refined shortening and cooking oils, except corn, edible	4 N	X X	D N	D N	
31122527	Vegetable oil mills (processing purchased vegetable oils), except corn, cottonseed, and soybean	N N	X X	X X	1 816 639 N	
3112252701	Cottonseed oil, once-refined, purchased and deodorized only mil lb 2002	7	X	S	91 813	
3112252706	1997 Soybean oil, once-refined, purchased and deodorized only	N 8 N	X X X	N   6 752.0   N	1 255 607 N	
3112252711	Palm oil, once-refined, purchased and deodorized only mil lb2002 1997	6 N	X	S N	45 022 N	
3112252721	Coconut oil, once-refined, purchased and deodorized only	6 N	X	s N	26 216 N	
3112252731	Peanut oil, once-refined, purchased and deodorized only	8 N	X	104.4 N	D N	
3112252741	Sunflower oil, once-refined, purchased and deodorized only	3 N	×	D N	D N	
3112252751	Other oils, once-refined	8 N	X	300.4 N	108 502 N	
3112252761	Once-refined corn oil, purchased and deodorized only mil lb2002	6 N	X	732.2 N	215 058	
3112252Y	Shortening and cooking oils, nsk	N	X	X	N -	
3112252YWV	1997 Shortening and cooking oils, nsk	N N N	X X X	X X X	N	
3112254	Margarine, butter blends, and butter substitutes	N N	X X	X	1 316 868 1 360 132	
31122541	Margarine, butter blends, and butter substitutes	N	X	X X X	1 316 868	
3112254100	Margarine, butter blends, and butter substitutes¹	N 26 25	X 3 059.9 P3 075.6	X S P3 106.1	1 360 132 1 316 868 1 360 132	
311225W	Fats and oils refining and blending, nsk, total	N	X	X	363 425	
311225WY	Fats and oils refining and blending, nsk, total	N N	X	X	261 041 363 425	
311225WYWW	Fats and oils refining and blending, nsk, for nonadministrative-record establishments	N N	×	×	261 041 221 887	
311225WYWY	Fats and oils refining and blending, nsk, for administrative- record establishments	N N	X X	X X	158 670 141 538	
	1997	N	X	х	102 371	

See footnotes at end of table.

#### Products Statistics: 2002 and 1997—Con.

<sup>1</sup>For additional detail, see Current Industrial Report M311K, Fats and Oils: Production, Consumption, and Stocks.

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

# Table 6b. Product Class Shipments for Selected States: 2002 and 1997

[Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in Table 2. Also, product classes are not shown if they are miscellaneous or "not specified by kind" classes. Statistics for some states are withheld because they are either less than \$2 million in product class shipments or they disclose data for individual companies in 2002. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographic definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS product class code	Product class and geographic area	Value of product shipments (\$1,000)
3112252	Shortening and cooking oils	
	United States	6 680 665
	1997 Illinois	1 084 404
	1997 Minnesota	768 722
	1997 New Jersey	N 134 001
	Tennessee	308 608 N
3112254	Margarine, butter blends, and butter substitutes	
	United States	1 316 868
	1997 1000 2002	1 360 132 79 713
	1997   Minnesota	145 573 95 903 N

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

# Table 7. Materials Consumed by Kind: 2002 and 1997

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Material code	Material consumed	Quantity	Delivered cost (\$1,000)
311225	Fats and oils refining and blending		
00900001	Total materials	X	5 165 500
11111000	1997    Soybean seeds, nuts, and beans	X 2 908.0	5 557 230 641 824
11192003	1997    Cottonseed seeds, nuts, and beans	N D N	N D N
11100007	Other seeds, nuts, and beans (excluding cottonseed, sunflower, soybean, flaxseed, and peanuts)	D	D
31122301	1997    Cottonseed oil, crude	N D	N D
31122303	1997    Cottonseed oil, once-refined   1997    1997    1997	164.9 P164.5 163.3	49 865 34 964 43 733
31122001	Cottonseed oil, fully-refined	42.1	9 855
31122201	1997   Soybean oil, crude	117.8 6 243.1	31 948 1 089 313
31122203	1997    Soybean oil, once-refined	7 411.2 D D	1 766 045 D D
31122003	Soybean oil, fully-refined mil lb .2002	4 675.4 P3 165.9	911 367 824 123
31122123	Corn oil, crude	P133.1 203.4	28 823 54 045
31122125	Corn oil, once-refined	D 49.9	D 14 211
31122127	Corn oil, fully-refined	490.2	134 814
31122309	1997   Other crude oil	169.0 P1 150.1	51 957 320 790
31122311	1997  Other once-refined oil   1997    1997    1997	91 160.9 452.6 210.6	280 519 105 577 75 170
31122005	Other oil, fully-refined	861.2 9245.5	208 474 87 675
31161115	Lard	168.5 191.2	45 945 48 020
31161105	Tallow and stearin, edible mil lb . 2002	D 154.6	D 35 472
31491101	Textile bags (burlap, cotton, polypropylene, etc.)	X	D
001900A3	Bags (plastics, foil, and coated paper)	ŝ	N 2 666 N
32222401	Bags (uncoated paper and multiwall)	X X X X X	1 241 N
001900A1	Packaging paper and plastics film, coated and laminated	X X	D N
32220017	Paper and paperboard containers (including shipping sacks and other paper packaging supplies)		58 957
32610029	Plastics containers. 1997	X X X X	113 654 146 066 282 188
32721301	Glass containers	X	D D
33240000	1997   Metal containers	X	26 068 13 224
00970099	All other materials and components, parts, containers, and supplies.	X	281 374 1 259 628
00971000	Materials, ingredients, containers, and supplies, nsk	x x x x x x	902 871 254 598

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.